



Mecheleci

VOL. VI NO. 3

WASHINGTON, D.C.

JANUARY 1947

A.I.E.E. DINNER

The annual dinner and reception of the Washington Branch of the American Institute of Electrical Engineers was held on December 10th in the South American room at the Hotel Statler. Approximately a hundred and fifty-five persons were present to welcome the National President Mr. J. Elmer Hausley.

The Institute with its 26,000 members throughout the entire U.S. is much too large an organization to permit the National President to have personal contact with each member or even with each local society. It was therefore a high honor paid the local society when President Hausley took time off from his duties to appear at this dinner and reception.

The reception and cocktail hour preceding the dinner was a delightful prelude wherein old acquaintances met again after a lapse of years, and wherein each person had the opportunity of meeting President Hausley and Dr. Matthew Luckiesh, from the G.E. Company, who spoke later in the evening at the regular monthly meeting at the Pepco building. Of interest to the electrical engineering students at GW was the presence of two old friends of the University society, Professor Norman B. Ames and Mr. Harold Vaughn. The latter, who is chairman of the Student Activities group of the Washington Branch, has on occasion met with the University Branch of AIEE at its monthly meetings.

Following the four course dinner served in the excellent Statler manner, the master of ceremonies, Mr. F. S. Black, present President of the Wash-

(continued on page 6)

M.E.'S TO TOUR TAYLOR MODEL BASIN

FRESHMEN-SOPH'S ATTENTION!!

Underclassmen are eligible for student membership in all the professional societies. It is a mistaken concept that these societies are limited to upper classmen.

These societies are not only beneficial to the engineer, they are essential. We urge all engineers to join the society with which their interest abides, at the earliest time possible.

The purpose of the societies is to promote cooperation between engineers, to keep the engineer informed of the progress in his field and to help him better prepare for the work of his profession after graduation.

Attend the next meeting on January 8, for further particulars, or drop a note with your name and questions in the Mecheleci box outside the Dean's office. We shall be glad to assist you.

The respective societies are: ASME, the American Society of Mechanical Engineers; ASCE, the American Society of Civil Engineers; AIEE, the American Institute of Electrical Engineers; and IRE, the Institute of Radio Engineers.

-LARRY BROWN

TRIP SET FOR JANUARY 9TH

On Thursday, January 9, members of the student branch of the A.S.M.E. will make the third of a series of field trips. The January trip will be a tour of the Navy's David Taylor Model Basin, located about three miles west of Glen Echo on MacArthur Boulevard. It is expected that this trip will prove highly interesting, not only to the M.E.'s but to other engineering students as well.

Perhaps a few words about the David Taylor Model Basin will serve to give an idea of its activities. It was established by the Navy as a sort of experimental testing laboratory to deal primarily with hydraulic problems. The largest of its numerous projects is a huge basin, approximately 900 feet in length, in which model ships are floated and tested under various conditions. The ships are towed from rails paralleling the length of the basin. These rails are laid with extreme accuracy even to the extent of having the curvature of the earth in them. They have an allowable error of five-thousandths of an inch, both horizontally and vertically. When the work on extension of these rails is completed, the overall length of the basin will be more than 2000 feet. In addition to the testing of naval vessels, it is interesting to note that tests are also conducted on cargo and commercial type ships. Several commercial shipping companies have had tests carried out for them.

Aside from the main testing basin, numerous other experiments are being conducted. These experiments occasionally take on new or novel angles. For instance, one experiment consists of a stationary model in which the

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CALENDAR

January

- 8 Society meetings
- 15 Engineers Council
Theta Tau (short)
- 29 Theta Tau (long)
- 30 Sigma Tau

Mecheleciv

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The Mecheleciv Staff wishes to thank Miss Dorothy Slothower for the valuable typing services she rendered in making up this issue. Miss Slothower is a history major at Shippensburg State Teachers' College, Penna.

EDITORIAL

by Larry Brown

The end of 1946 found the University with a new hospital under construction and the Student Union proposal the leading controversy on the campus. Students have been asked to indicate their willingness, or lack of it, to support the latter issue. BUT, is anyone proposing any improvements specifically for Engineers? Occasionally, there are grumblings about the inadequacy of the Engineers' Lounge. But let's go a bit farther. The lack of facilities in the lounge is carried over to the space and equipment of the entire School of Engineering. We need more equipment, newer and better equipment, and more space for it. Who cares about the equipment we have to use? Certainly not the pre-meds, possibly nobody outside the School of Engineering itself. With a record enrollment, we need not be the "Silent School" referred to in a recent issue of the Mecheleciv.

There is a saying that goes, "The Lord provides for the Lame and the Lazy", but the saying doesn't tell how much will be provided. Let's not be "Lame and Lazy".

COMMENT & OPINION

By Leonard Boein

After months of meticulous forethought, a shortened list of Curricula grievances has been achieved through the process of elimination and the consideration of such untimely factors as the heavy and prevailing demonstration of student enrollment.

It would indeed be far insufficient to describe the present engineering orientation classes "as merely being overcrowded". We question placement of the subject in the Freshman year. With no intention of criticizing the fine standard of lectures presented in the course, it appears obvious that the criteria of understanding and interest would be much more highly appreciated if the same course were offered in the Junior or Senior year.

Almost equally perturbing is the question brought up in reference to the required course in speech. From a practical viewpoint, it is more necessary for an Engineer to learn how to persuade rather than inform. Perhaps a special engineer's speech course is indicated. A closer collaboration of the Engineering School with the Speech Department should be effected.

One of the most annoying of all problems confronting the students is the Curricula setup of pre-requisite and concurrent registration requirements for many subjects offered.

Crowded classes in lower division subjects have precluded pursuance of a normal course. This complicates arrangement of schedules. A more detailed study of relevant pre-requisite courses by the Engineering School would be most helpful to the student body.

In bringing these thoughts to a close, it might be added that the goal of an engineer is eventual success in his undertakings and a better understanding of these little things by the faculty will help the engineer to attain his goal.

"Now," said the college man to his dad at the football game, "you'll have more excitement for two dollars than you ever had before."

"I don't know," replied the old gent. "That's what my marriage license cost me."

"You've been out with worse looking fellows than I am, haven't you?"

She did not reply.

"I said, you've been out with worse looking fellows than I am, haven't you?"

"I heard you the first time. I was trying to think."

THE DEAN'S COLUMN

Many thoughts crowd in at the door of the Christmas season.

First is the feeling of pressure lifted, a few days of holiday ahead. Next, perhaps, is the thought of home, our own, or the family fireside, we plan to see. But, more than any, is the remembrance of war years with their sorrow and the deep sense of relief that has come with peace.

This year, of all years, we can repeat with deep joy the age-old refrain, "Glory to God in the Highest and on earth, peace to men of good will".

And, if in distant lands, we remember the white crosses under the Christmas star, where some soldier sleeps, we can join with those who come back from the bitter fields of battle, in singing the old carol, "God rest ye, merrie gentlemen, Let nothing you dismay, For Christ was born in Bethlehem Upon this Christmas day."

To you all, students, faculty, trustees, alumni and friends of the School of Engineering, herewith hoping you had a Merry Christmas and will have a very Happy New Year.

-Dean Feiker

"REGISTRATION BLUES"

Those folks who never read a comic,
But sweat and fret each day
away:

"What will we do with bombs
Atomic;
And what will Stalin say?"

Yes, some folks worry 'bout
their fate
And that of our whole nation;
But I sit here in dread and
wait

For the mid-term registration!

--George O. Clark

He: "Why wait until we get home before you tell me if you'll marry me or not?"

She: "I'm scared. This is the very spot where my father proposed to my mother."

He: "So what?"

She: "Well, on the way home the horses ran away and father was killed."

MEET YOUR PROFESSOR



It is a paradox—the man who has the right refrains from speaking highly of himself; the man who does not have that right can speak of nothing else. And so it was that our professor of the month, Dwight Edward Shylte, was reluctant to speak of himself. If one listens and observes he obtains a perspective of the relation among people; so in listening and observing, we know the high esteem in which Professor Shylte is regarded.

Selby, North Carolina, the birthplace of Professor Shylte, provided the usual pleasures for his childhood and offered the facilities of its high school. Following the completion of high school, "Ed" Shylte went to the Westinghouse Electric Corporation in Cinnimatti where he completed their four year apprenticeship course as a Service Engineer. The following two years found him in Charlotte, N.C. as a service engineer for the Westinghouse Corporation. While there, Professor Shylte found something—a girl by the name of Marjorie Washburn who soon accepted the additional name, Shylte. Now they have a 13 year old daughter, Barbara, who possesses the music talent in the family.

After the 2 years in North Carolina, he came to Washington, D.C. where he attended and graduated from the Bliss Electrical School. In 1935 he again joined the Westinghouse Corporation. The year 1935 also saw him as an electrical engineering student at George Washington University's night school. At this time Westinghouse appointed a contractor and dealer under the professional title of the Combustion Corporation. Professor Shylte was transferred to this division in the capacity of Engineer and, except for the 3 years spent in the Navy, is still with them. In this capacity of Engineer, he has designed and supervised the installation of air conditioning systems for most of Washington's leading hotels, apartment buildings, and hospitals.

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STRUCTURES OF SCIENCE

By Leonard Boein

Last year, one of the most famous scientific institutions in the world, located in this city, celebrated its centennial anniversary. The Smithsonian Institution traces its establishment to the following quote from the will of James Smithson, a lineal English descendant of King Henry VII, who, strangely enough, had never visited America:

"I then bequeath the whole of my property...to the United States of America to found at Washington, under the name of the Smithsonian Institution, an establishment for the increase and diffusion of knowledge among men."

It was only after eight years of Congressional debate as to the acceptance of the gift, and the proper interpretation of the above quoted passage, that a compromise was reached and the Act of Incorporation was approved in 1846, providing for an Establishment, a governing Board of Regents, an Executive Secretary, a suitable building, a museum, an art gallery, a chemical laboratory, and a library, all to be located in Washington. The Board of Regents includes the Vice President of the United States, Chief Justice of the United States, three United States Senators, three Representatives, and six outstanding private citizens.

The history of the expansion of the institution may well be termed the story of the achievements of research by the outstanding men who held the post of Secretary to the Institution. This position was originally held by Joseph Henry, famous in electromagnetic research, and has been held consecutively by Spencer Fullerton Baird, Samuel Pierpont Langley, Charles Doolittle Walcott, Charles Greeley Abbot, and today by Alexander Wetmore. According to their varying perspectives and ideas for the "increase and diffusion of knowledge among men," the Institution has been gradually increased until today it includes the United States National Museum, National Gallery of Art, National Collection of Fine Arts, Freer Gallery of Art, Bureau of American Ethnology, Institute of Social Anthropology, International Exchange Service, National Zoological Park, Astrophysical Observatory, and Division of Radiation and Organisms.

"The diffusion of knowledge" is accomplished by the Institution mainly through its many series of publications. These represent most of the branches of science, including zoology, anthropology, astronomy and astrophysics, meteorology, physiology, ethnology and archaeology, botany, mechanics and aeronautics, physics, chemistry, geology, and several others.

Short Circuits



Now that all you EEs have had a Merry Christmas and a Happy New Year's Day, let's backtrack a couple of days and throw in one more resolution: To make our AEE chapter bigger, better, and even more fun than before. Not that it's not good now, it is! And to prove it, look at the coming Program: Mr. P. B. Shirling, Supervisor of Sales Training, Westinghouse will be guest speaker at the January 8 session. The time is 8:15 P.M. In addition there will be a twin feature movie program with "Electronics at work" and "Summer Storms".

Student Papers:

The April meeting is to be devoted to Student Papers. We're looking forward to some enlightening topics.

Also on the docket for the coming semester is a big party, a Laboratory dance, and two field trips.

Washington Branch:

A joint meeting of the engineering societies at which Dr. Vanneva Bush will present "Engineering and Government" will be held on Tuesday, January 14, 1947 in the New Interior Department Auditorium.

Activity Fee:

How will the activity fee affect the AEE? Is it designed to benefit the engineers, or just the Fraternities, Sororities, and Sports? There seems to be lots of talk but no one knows who will control the fund or to whom the benefits will go. We should demand the bill to make clear these points before it goes to the plebesoite.

Throughout its history, the Smithsonian Institution has been prominently connected with the exploration of little-known districts of the earth, and the collection of scientific data and specimens from them. One of its projects was the famous Theodore Roosevelt African Expedition in 1909-1910. Also notable among the more than 1,500 separate expeditions in which the Institution has taken part are: the solar expeditions, the exploration of prehistoric Indian ruins in the Southwest and in Latin America, and the studies by Dr. Walcott of Cambrian fossils in the Canadian Northwest. Many of the items brought back from these expeditions are present for exhibition today in the various buildings of the Institution.



By Deryl Haddox

"Old man last year," with his scythe in hand, was passed to the beyond. Stopped with the knowledge and cares of the past year—days of toil for the engineering student, but now without some little refreshing moments. Take, for instance, the last meeting of the C.E.'s. Although President Krisberg was unable to attend, our Vice-President took things over with a bang—his gravel hit the table. The meeting started with readings of several committee reports and the minutes of the previous meeting.

The report from the trip committee included a list of places the society will visit this bright New Year. A vote was taken on which days were best to have the trip. Saturday seems to have the most favor.

The party committee announced that the party date was a little nearer, since Jack Lane had kindly offered the use of his house.

Vice-President Heister introduced to the membership a visitor from the parent society, Mr. Dudley D. White, President of the District chapter of the parent society. Mr. White was certainly a welcome guest and we hope he will visit with us again.

The meeting was interrupted momentarily when the photographer from the Cherry Tree came to get the C.E.'s to congregate a pretty face.

The two movies mentioned in this column in the last issue turned out to be three movies.

The meeting was adjourned and the organization joined the M.E.'s and E.E.'s to see the picture on the recent world series. Prof. Walther was the chief engineer on the camera crew which provided the excellent show of Eso signs.

LUNCH AT

G. W. Food SHOPPE

ACROSS FROM GOV.

2110½ G St., N.W.

CHRISTMAS TREE

The Engineer's Council again this year put up its annual Christmas Tree on Lister Terrace in back of the Library.

John Slothmore, Stuart Beatson, Ted Nelson, Robert Kautz, Felix Geissler and Lincoln Roberts, who fixed the tree, left the University early Saturday morning and went into the wilds of Virginia and, like true *cœur du bois*, cut down a tree. After it was brought back in a truck, the tree was erected with great engineering genius.

The masterpiece was decorated the following day. The thirty-five foot spruce was donated by Mr. W. P. Ames, Professor Ames' brother.

A.I.E.E. Technical Sessions

Pepco Auditorium 8:00 P.M.

Jan. 22, 1947 "Machine Computation of Power Network Performance." Mr. C. A. Dunston, Federal Power Commission.

Jan. 29, 1947 "Aircraft Electrical System Testing." Mr. P. L. Merriam, Glenn L. Martin Co.

Feb. 5, 1947 "Urban and Highway Radiotelephone Service." Mr. W. C. Wannan, Chesapeake & Potomac Telephone Co.

Feb. 19, 1947 "New Developments in Battery Design." Dr. G. W. Vinal, Bureau of Standards.

Feb. 27, 1947 "High Voltage Transmission Possibilities." Mr. S. E. Schulta, Bonneville Power Administration.

"INSIDE FOLSE"

By Ken Folse

Welcome, lucky readers, to a new year and a new Folse. No longer will I write columns as bad as the last one. No longer will I dwell on me. No longer will I use the pronouns, handsome, good-looking and wonderful when referring to myself, even though they are true.

Never again will I mention a yo-yo joke in a scientific magazine. (Editor's note: What magazine is that?) (Columnist's note: The Mecheleciv, you dope.) (Editor's note: Oh.) Of course some yo-yo jokes have a definite scientific slant, such as, "I own the only yo-yo in the world that's controlled by Radar." No longer will I...

These are New Year's resolutions: things you ought to do but won't. Things you oughtn't to do are immoral. You write out a list of them, pretend it's the Hatchet, and, laughing fiendishly, you burn it to ashes.

Resolutions disposed of, I will now turn to my favorite subject: Me.

I was very grateful to receive all these Christmas Cards from my fans, including the electric one. (Editor's note: Electric Christmas Card?) (Columnist's note: No, electric fan, sucker.)

That booby trap disguised as a yo-yo didn't fool me, Mr. Disgruntled Reader. Anyhow, I can always learn to write with my left hand.

Next month I will answer numerous requests for a story of my home life. I'll even answer the requests if you don't send them in.

The paper shortage shorts on, so here is another abbreviated poem:

Title: Man asking Marjorie Rhodes what the Hatchet has that the Mecheleciv hasn't.

"Sports?"

"Of courts."

CROSS-WORD PUZZLE

HORIZONTAL

1. The y-axis
5. Tribe of Indians minus final letter
6. Den
8. Stubbornness
9. Like
11. Branch of engineering
15. Diplomacy
16. R=33.3, n=1.4
17. Many problems not _____ have been solved by engineers.

VERTICAL

1. Sphere
2. Opposition to an electric current.
3. Genua of wings
4. Meeting a curved surface at only one point.
5. To take responsibility for a project.
7. Antonym of transmitter
9. Existing
10. One of the points of the compass.



13. Stupe
14. Compete

ENGINEERS ARE PEOPLE



Ervin Liljegen's smile and friendly personality have undoubtedly won him many friends throughout his successful academic career. Born in a small Minnesota town, Ervin lived his boyhood years in the usual Tom Sawyer manner. After graduation from high school, he attended the University of Minnesota for 4 years where he completed the first 4 years of a 5 year combination course of chemical engineering and business administration.

Ervin won his athletic letter as a member of the track team of the University. His membership on the track team was accompanied by many memorable experiences—running against Purdue in the snow—taking his examinations en route by train for a track meet in Texas. He holds the record in Minnesota for the 2 mile event—time 9 minutes, 24 seconds.

Ervin left Minnesota in 1940 to take a position in Washington with the census bureau as a statistical clerk. He soon found a more desirable position as a research chemist at the Institute of Health in Maryland. In 1942, he began work on his general engineering degree at the G.W. night school.

He plans to stay with his job, where he sees a bright future in bacteriological engineering, which he claims to be a new and challenging field with the coming of atomic energy, and purification of the air.

His hobbies are color photography and woodworking. He also helps in furnishing his apartment with bookcases and the like.

Sorry girls, but he has a wife. He has no time for sideways glances at you.

THETA TAU

By Al Barauck

Gamma Beta chapter of Theta Tau has once more hit its stride and is rolling along at full speed. One is the number of men pledged at a special meeting on December 20.

These men, chosen for their professional attainment, extra-curricular activities, and general fellowship, are as follows: John Slotbower, Dwin Craig, Freemont Jewell, William Geisze, Julian Showkier, Elmer Sunday, John Dallas, Frank Weatherby, and Irvin Liljegen. The last two men are seniors. The actives are looking forward to the time, probably in March, when this fine group of men is initiated.

By the time that this paper is issued, Brother Felix Geisler will have returned from the National Convention at the Delta Beta chapter in Louisville, Kentucky. No doubt he has a lot to tell us about.

Other business of Theta Tau concerns itself with aiding Sigma Tau in the establishing of an Engineers' Library, and planning for a large open meeting sometime in February. Brother Alfred Barauck is committee chairman of the latter and rumors have it that the meeting will be about the future of engineering organizations.

M.E.: "May I kiss you? May I please kiss you? Say, are you deaf?"

Coed: "Are you paralyzed?"

INQUIRING ENGINEER

There is proposed a bowling league between the engineering societies. What are your reactions?

JIM HASKELL, IRE-

Sounds like a good idea. I'm heartily for it. It'll promote brotherly competition.

LEWIS BOOKER, ASME-

If you could get enough people to participate it would be swell!

BOBBY BAUMANN, ASME-

Duckpin phooey, but we're all out for tennpins!

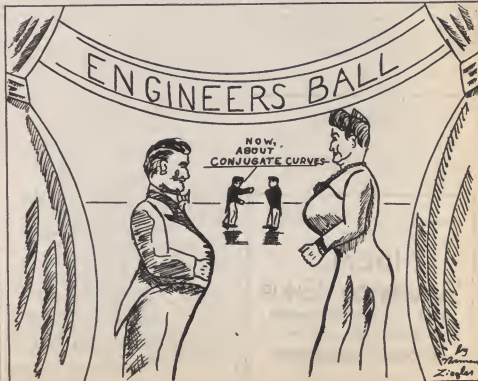
DON ELANCHARD, ASME-

It's a fine idea. It would give some exercise to some of the older members of the societies.

H. R. KOLMEYER, ASCE-

I think it's a good idea, but personally I don't have enough time.

"I'm losing my punch," said the coed as she hurriedly left the cocktail party.



PENN-VUE DELICATESSEN

1928 PENNA. AVE., N.W.

FINE FOODS & DELICACIES

ME and S You

A near sell-out crowd attended the last meeting that: Started with four technical lectures; was interrupted by the taking of a group picture for the Cherry Tree; ended in a general confusion of Civil and Mechanical Engineers viewing a World Series film and making food disappear in a most amazing manner. Elmer Sunday's speech netted him a free ticket to the Engineer's Ball but did not put to shame the fine deliveries by Herb Murray, Dan McBride, and Stan Lange.

The next meeting, features Mr. H. C. Roby, hydroelectric power consultant, as speaker and in conjunction, a sound film on the Bonneville Dam. Don't miss this one. You'll regret it if you do.

David Taylor Model Basin will be hosts to the organization on Jan. 9, 1947 at 2 P.M. when a conducted tour of the establishment will be staged. Since no public transportation is available, arrangements will be made at the next meeting. This field trip to one of the finest scientific establishments in the world is one that certainly will be a privilege to attend. Plan to be among the participants.

Did you ever think of the possibility and necessity for an engineering library in conjunction with an engineer's lounge? That combination is worth considerable thought and perhaps a little plugging. Every school should have a technical engineering library and C. W. is no exception. Perhaps the columns of the white building at 21st and H could stand an addition without falling. What do you think?

-P. J. Glenick, Jr.

Little Louise: "Mother, dear, what does dehydrate mean?"

Mother: "It means getting all the water out of anything, why?"

Little Louise: "Well, my puppy just dehydrated in the living room."

COKES

COFFEE

IDEAL SANDWICH SHOP

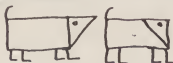
Next to Circle Theatre

2104 1/2 PENNA. AVE., NW.

DELICIOUS MILKSHAKES

SCIENTISTS ARE ALSO HUMAN

Einstein claims that he can explain anything geometrically. That claim entangled him on one occasion. The story goes that he appeared at a scientific meeting with a cold. Due to the cold he was continually sniffing as man is want to do. One observant scientist noticing this asked Einstein to define those sniffs geometrically. Einstein thought a few minutes and answered the query. He said, "The sniffs are two rectangles, two triangles, two arcs, two circles, and eight right angles. The scientists puzzled asked him what he meant. Einstein drew the following diagram in answer.



A second story told about Einstein is one concerning him and a little girl. It seems every day at a certain hour a little girl would visit the wizard of mathematics with whom he would confer for several hours after which the girl would leave. One day an interested man asked Einstein what the attraction was between him and the little girl.

Einstein's reply for posterity is classical. He said, "I enjoy the gum drops she brings me, and she likes the way I do her homework in arithmetic."

AIEE DINNER (cont'd from page 1)

ington Branch, welcomed those present. Of interest to everybody was the introduction of several of the past presidents of the local organization, many of whom had served more than 30 years ago. They were older in years out their manner bespoke of youth. President Hausley was formally introduced and in a brief talk gave some glimpses of the future plans being laid which would insure closer communion among the National branches and provide more help and security for the young engineer.

At 8:15 the group went to the Press building where Dr. Luchiesh talked on Germoidal Radiant Energy, the story of the successful research conducted in the preparation of special type lamps used in the destruction of bacteria.

—Bernadine Dunfee

Hypo Hollerin's

By Ken Foloe

Except for the fact that its writers won't let you forget for one page that they are employees of Eastman Kodak Company, Miller and Brumitt's *This Is Photography* (Garden City, \$2), is an excellent book for the amateur who has passed beyond *How to Make Good Pictures* but doesn't want to specialize on *Loctens on Enlarging*.

It is not a primer. It assumes you know a little on the subject. It would, we believe, make an excellent text for a course in basic photography. The little experiments at the end of each chapter would be an aid to the serious amateur who wants to get somewhere.

The most glaring omission is in the chapter on color work. Ansco color, its processing, and Prinston should be included, we believe, in any discussion of color processes. But authors Miller and Brumitt, as we have said, work for Eastman Kodak Company.

That for once color photographers are credited with enough mathematical ability to work a few simple formulas is to be commended. Only rarely will you have to compute depth of focus, but when you do need the formulas, you need them badly and we're glad Messers M. and B. included them.

Developer Doolin's: Sorry about the Prinston, folks, but with Christmas gifts, etc., we just couldn't see our way clear. Besides, we're so disgusted with the samples we've seen that perhaps it will be best to wait for the new E.K. wash-off process. The gimmick of exposing Ansco color the second time under water is only necessary in warm weather. Usually you can get by otherwise. The flash exposure for E.K.'s Infrared Roll Film as recommended in their handbook on *Infrared and Ultraviolet Photography* seem a little on the heavy side. Mine came out with the highlight detail all blocked out. Come use a stop smaller next time... Had a wonderful time taking pix in Miami (Fla.) during Christmas holidays. For once, my Weston read over 100.

Two men and a young lady met on a golf course one day and decided they had better get acquainted.

One man said: "My name is Paul, but I'm not an apostle."

The other said: "My name is Peter, but I'm not a saint."

The girl said: "My name is Mary, but I'm not a v-v-very good player."

Engineer: "Is this dance formal or do I wear my own clothes?"

KEEPING ALLIANCE WITH SCIENCE

Man has come a long way since primitive times in the direction of self-preservation, and subsequently in the way of higher living standards, working aids, safety devices, and applied medicine. He has developed a network of knowledge, in the fields of technology and theoretical sciences, so vast and so immensely complex, that several volumes could be written on any one of a hundred thousand different fields. Centuries of scientific development and fabulous fortunes have been spent in research in ushering in the new atomic era.

But this stage has not been reached through the medium of progressive continuous scientific development. The simple method of trial, error, and final success has occurred millions of times. For every new fact and theory that has been established, hundreds of other facts and theories have failed and been discounted. The ancient theories of Galen were accepted by an intellectual world for over a thousand years before they were disproven. Newton's work was accepted for almost a century, until Albert Einstein formulated the reconciliation of Electro-Magnetics and gravitational physics, and added the finishing touches to fourth dimensional theory and the harmonic relativity of the entire universe (exit Euclid, Newton, etc.).

In 1946, a 38 year old Englishman, Dirac, came forth with the startling news that the puzzling problem of the atomic nucleus had been solved. The major fact that scientists had derived from this study until that time was the tremendous strength of fission of the composite parts of the nucleus. It was estimated that a certain atomic nucleus possessed so much strength, that if it were stretched out, it could support the entire World War I Navy of the United States, without tearing apart. Even Einstein was amazed when Dirac, in using some of the "Old Master's" equations, had found the mass of a nucleus to be zero!

Through the preceding example, it is even more evident as the year 1947 is launched, that science is ever replacing itself. Likewise, the American who declared in 1893 that there were no more patents to be invented, and Alexander (who despaired of having no more worlds to conquer) are soon left by the wayside to be degraded into obscurity. A new rocketship age will be soon bearing down upon us. The possibilities that loom ahead are as great as the discoveries and inventions that now lie behind. Pushbuttons and plastics will be taken in the stride. The cynic or fatalist who discredits all scientific progress to no good end and predicts a sudden and utter end for all development and

(continued in next column)

human achievement as soon as the sun burns out, or complete atomic destruction is reached, or some similar catastrophe occurs, has no place in man's scientific scheme of the future. His motives are lost in the mazes of the dark ages. Even now, scientists and engineers are beginning to probe into the mysterious powers of the cosmic ray. Energy many times more concentrated than atomic power is almost on the verge of our fingertips, ready to serve a striving humanity in the cause of self-preservation and its auxiliary fields. True, a billion more experiments have yet to be tried and many are to fail; but some of these are to succeed. This is how unattained heights shall be reached.

JOKES

An Ensign was driving the Training School's station wagon through Itasca, and while glancing at a shapely pair, he lost control of the car and careened into an open air fruit and vegetable market. Before he got things under control again, he had knocked over a bushel of apples, a barrel of potatoes, and stand of beans, a case of oranges, and generally wrecked havoc. When he finally stopped in the middle of the next block and looked back, he saw the merchant standing in the middle of the street yelling, "Don't bother to come back. I'll kick the damn eggs over myself."

"Do you owe any back house rent?"

"We ain't got no back house, we got modern plumbing."

"Of course I'm not married," she said. "I'm nobody's fool."

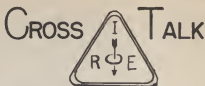
"Then," said he, hopefully, "will you be mine?"

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By Larry Brown

Organization of a student chapter of the IRE here at GW has turned from a dream into a reality. A petition, signed by thirty-five members, was turned into the National Board of Directors, asking authorization of the group. Only fifteen members are required for a student chapter. And the remarkable thing about it: these were only those contacted in a few days. It looks like the IRE is going to be a healthy baby. A reply should be soon forthcoming.

There has been talk of a ham station at GW under auspices of the student chapter of IRE. Thinking and endeavor made the student chapter a reality, and it certainly can make the radio station a success. Not only will pleasure and fun be derived from such a project, but real engineering problems can be solved dynamically, giving experience and judgement a partnership with theory and knowledge. It sounds like a great idea!

Professor M.K. Akers has expressed the desire for a combined engineers group on the campus. Certainly engineers have common interests. The AIEE and the IRE especially have much in common. These two groups could be combined, providing more versatile programs could be arranged encouraging cooperation which is essential for the success of both. The war was won because of cooperation among the professions--the peace can also be won by cooperation between the professions. Maybe a joint AIEE-IRE is the place to start.

We would like comments upon the above proposal by all IRE members. They can be turned in to the Mecheleciv box outside the Deans' office.

We would like to thank the AIEE for their help and cooperation in all matters. We hope that a joint society is feasible which will be larger and better for the AIEE, the IRE, the University and the engineer.

While giving a performance the magician spread a blanket over the newspaper and then proceeded to read it through the heavy cloth. All the cards got up and left.

MEET YOUR PROFESSOR (continued from page 3)

In 1943, he received his commission in the Navy where, with the exception of 6 months, he assumed a responsibility as maintenance officer of the Navy Torpedo Station which demanded some of the clearest thinking and most vital mental stability of any phase of the military's manipulations. He analyzed causes of many power failures producing loss of hours in the important production of torpedoes. Additional responsibilities included the making of short circuit calculations through high tension feeders and oil circuit breakers, redesigning main switchboard and switches to safely interrupt maximum short circuit currents on any part of the system, and designing new high tension feeder systems and outdoor sub-station to use power from two separate sources with automatic switches to feed entire plant from one source in case of power failures on other.

In spite of all this continual work and study he definitely doesn't follow the principle of "all work and no play". He plays golf, enjoys fishing, is a keen enthusiast of all competitive sports and even found time to become a member of Theta Tau and the Engineer's Council, serving for one year as treasurer of the latter.

As an Associate Professor of Engineering at George Washington University—well, enroll in his d.c. and a.c. machine laboratory classes and learn of his excellent ability for yourself.

A group of local college boys were coming home from a party one night plastered to the gills. They stood in front of the house of one of their number and called for the father. "Will you please do us a favor?" said one.

"What do you want?" replied the father.

"Will you please come out here and pick out Johnnie so the rest of us can go home?"

NEW 3-CORE SOLDER ELIMINATES DRY JOINTS

Three independently filled cores of purex rosin flux in one solder wire tends to eliminate dry joints, permits faster soldering and results in saving of tin. The three cores are completely independent of each other, thereby reducing the occurrence of "dry" sections. With the cores placed close to the surface the solder walls are thinner, melts quicker, and the heat penetrates the flux more rapidly.

DAFFYNITIONS

COMMUTATING POLES are those immigrants from Warsaw who go to work in New York and live in Jersey.

BREAKDOWN TORQUE is the conversation of a prisoner at the end of a successful 3rd degree.

POLYPHASE INDUCTION MOTOR is a two faced motor whose performance doesn't agree with your calculations.

CLOW DISCHARGE - the result of n-1 beers.

ARC BACK - the results of n-1 beers.

David Taylor Model Basin (continued from page 1)

water is circulated rather than the model. Another is one where serial torpedoes are fired into a transparent water-filled tank. Photographs of the reactions are then taken with high speed cameras.

Facilities are also available for testing submarines, mines, mine-laying equipment, and listening devices. "Strength of Materials" students might take note of a 600,000 pound tensile testing machine listed among the equipment, and the station has its own wind tunnel, machine shop, and repair ships.

The committee in charge of the trip has been assured that, whenever possible, they will be allowed to see actual experiments in progress. Since the duration of the trip is only two hours, it cannot be hoped to make a complete tour of the Basin's extensive operations. However, enough should be covered to make it an extremely entertaining trip. There is no public transportation available to the station and students must make their own arrangements. Those having cars are urged to give someone else a lift.

The meeting time is 2:00 P.M., Jan. 9th and the place is the wind tunnel auditorium at the David Taylor Model Basin.

-Matt Polk

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